

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows:

1. (Currently amended) An electronic camera, comprising:

an imaging device which images a subject so as to acquire image data with an imaging luminance range wider than a reproducing luminance range on at least one of displaying and printing; and

a recording device which ~~converts the image data acquired by the imaging device with a predetermined function and records the converted image data and information on the predetermined function~~ records an information indicating that the acquired image data is imaged with the imaging luminance range along with the image data acquired by the imaging device.

2. (Original) The electronic camera as set forth in claim 1, wherein the imaging luminance range is at least two and at most six times as wide as the reproducing luminance range.

3. (Original) The electronic camera as set forth in claim 1, wherein the imaging device images the subject with an exposure value that is lower than a normal exposure value for desired reproducing.

4. (Canceled)

5. (Currently amended) The electronic camera as set forth in claim-4 34, wherein the recording device records the first-order coefficient as attached information for the image data in the same image file as the image data.

6. (Original) The electronic camera as set forth in claim 5, wherein the recording device records the image file in one of a directory and a holder provided for each form of conversion.

7. (Canceled)

8. (Currently amended) The electronic camera as set forth in claim-7 35, wherein the recording device records the at least one of the base, the first-order coefficient and the zero-order coefficient as attached information for the image data in the same image file as the image data.

9. (Original) The electronic camera as set forth in claim 8, wherein the recording device records the image file in one of a directory and a holder provided for each form of conversion.

10. (Currently amended) The electronic camera as set forth in claim-~~4~~
33, wherein the recording device represents a relationship between the image
data and a digital value to be recorded while dividing the relationship into an
area where the relationship is represented by a logarithmic function and an
area where the relationship is represented by a linear function, and records at
least one of a base, a first-order coefficient and a zero-order coefficient of the
logarithmic function and a first-order coefficient of the linear function with the
image data.

11. (Original) The electronic camera as set forth in claim 10, wherein
the recording device records the at least one of the base, the first-order
coefficient and the zero-order coefficient of the logarithmic function and the
first-order coefficient of the linear function as attached information for the
image data in the same image file as the image data.

12. (Original) The electronic camera as set forth in claim 11, wherein
the recording device records the image file in one of a directory and a holder
provided for each form of conversion.

13. (Original) The electronic camera as set forth in claim 1, wherein the recording device converts output voltage values from photoelectric converting devices with a filter arrangement of R, G, B and G of a CCD into digital values and records the digital values.

14. (Canceled)

15. (Original) The electronic camera as set forth in claim 1, further comprising a mode switching device which switches between a normal imaging mode in which the subject is imaged with the same luminance range as the reproducing luminance range and a wide luminance range imaging mode in which the subject is imaged with the imaging luminance range that is wider than the reproducing luminance range.

16. (Original) The electronic camera as set forth in claim 15, wherein:
the subject is imaged with a normal exposure value obtained from normal photometry in the normal imaging mode; and
the subject is imaged with an exposure value lower than the normal exposure value, the exposure value being calculated according to the normal exposure value obtained by the normal photometry.

17. (Original) The electronic camera as set forth in claim 1, wherein the recording device records the image data with the same luminance range as the reproducing luminance range and records the image data with the imaging luminance range that is wider than the reproducing luminance range at one time.

18. (Original) The electronic camera as set forth in claim 17, wherein:
the imaging device images the subject with an exposure value of a case in which the subject is imaged with the imaging luminance range that is wider than the reproducing luminance range; and

the recording device converts the image data acquired by the imaging device with the exposure value so that the luminance range of the image data is the same as the reproducing luminance range.

19-30. (Canceled)

31. (Currently amended) An electronic image recording and reproducing system, comprising:

an imaging device which images a subject so as to acquire first imaged data with a recording luminance range wider than a reproducing luminance range on at least one of displaying and printing;

a recording device which ~~converts~~ records the first imaged data acquired by the imaging device ~~with a predetermined function into a first image data and records the first image data and~~ luminance range information relating at least ~~the predetermined function~~ the recording luminance range;

a reading device which reads the first image data with the recording luminance range and reads the luminance range information;

a signal processing device which produces, from the first image data with the recording luminance range, second image data with a luminance range required on the reproducing according to the luminance range information; and

a reproducing device comprising at least one of:

a displaying device which displays the second image data as the visible image; and

a printer which prints the second image data as the visible image.

32. (New) The electronic camera as set forth in claim 1, wherein the recording device further records an information indicating maximum reflectance set in the electronic camera.

33. (New) The electronic camera as set forth in claim 1, wherein the recording device converts image data acquired by the imaging device with a predetermined function, records the converted image data, and further records an information on the predetermined function.

34. (New) The electronic camera as set forth in claim 33, wherein the recording device represents a relationship between the image data and a digital value to be recorded by a linear function and records at least a first-order coefficient of the linear function.

35. (New) The electronic camera as set forth in claim 33, wherein the recording device represents a relationship between the image data and a digital value to be recorded by a logarithmic function and records at least one of a base, a first-order coefficient and a zero-order coefficient of the logarithmic function.

36. (New) The electronic camera as set forth in claim 15, wherein the recording records the image data acquired by the imaging device into a

directory or a folder corresponding to the imaging mode switched by the mode switching device.

37. (New) An electronic camera for recording image data obtained by imaging a subject, comprising:

an imaging device having a normal imaging mode in which the subject is imaged with a luminance range required in reproducing or printing or both and a wide luminance range imaging mode in which the subject is imaged with a wide imaging luminance range wider than the luminance range required in reproducing or printing or both, the imaging device for imaging the subject according to at least one of the normal imaging mode and the wide luminance imaging mode; and

a recording device for recording an image data acquired by the imaging device into a directory or a folder corresponding to one of the normal imaging mode and the wide luminance imaging mode.

38. (New) The electronic camera as set forth in claim 37, further comprising a mode switching device which switches between the normal imaging mode and the wide luminance imaging mode.